

Mobile Construction

MCCID v1.10

User Guide

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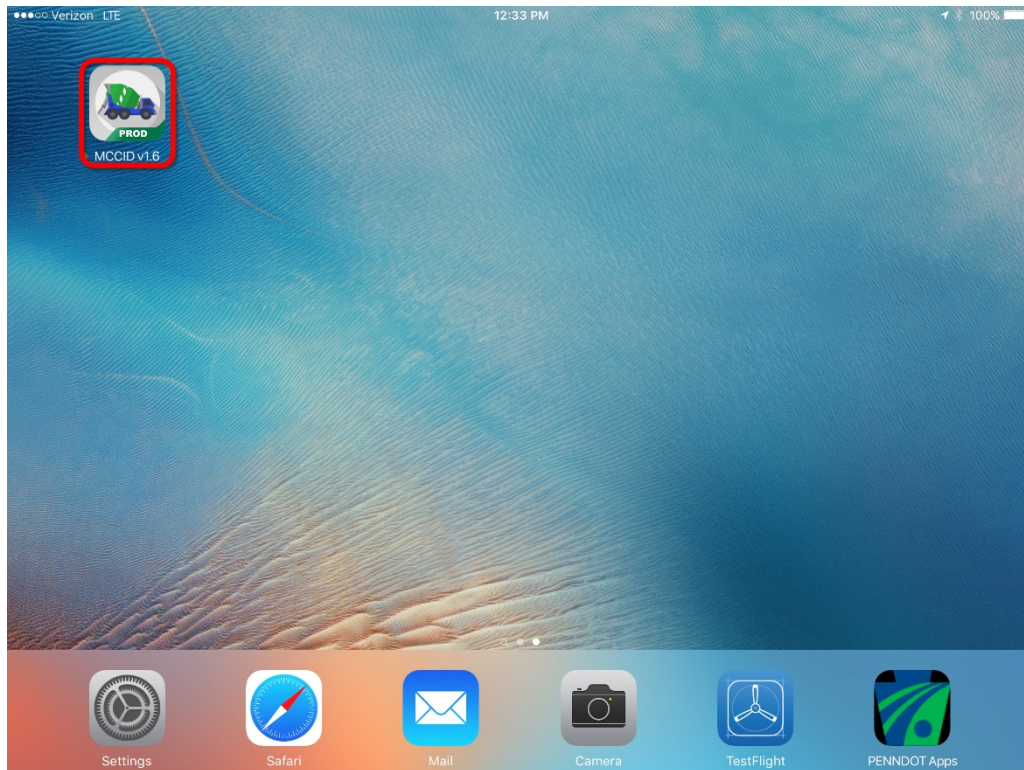
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Launching the Concrete Book App

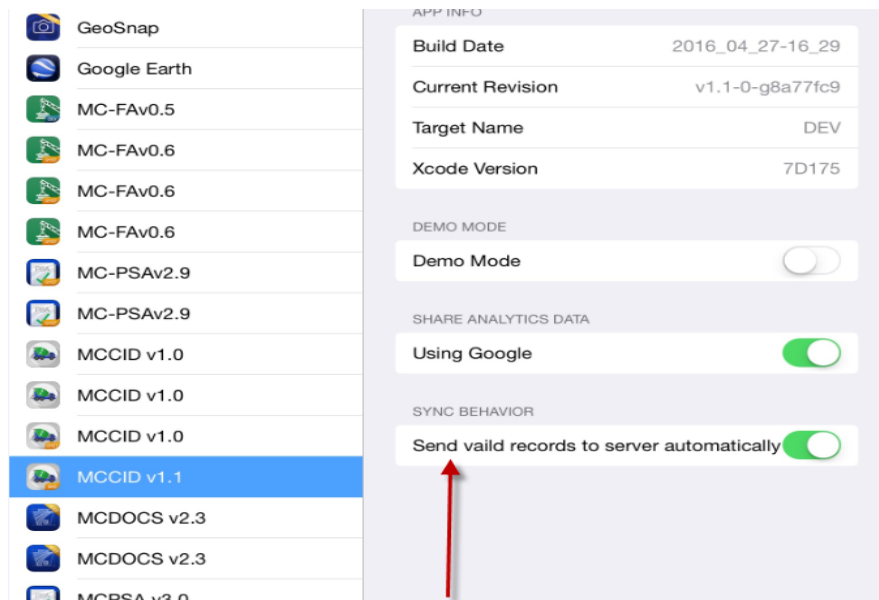
To launch the Concrete Book app after you have installed it, click the MCCID app icon on your home screen.



Basic Information

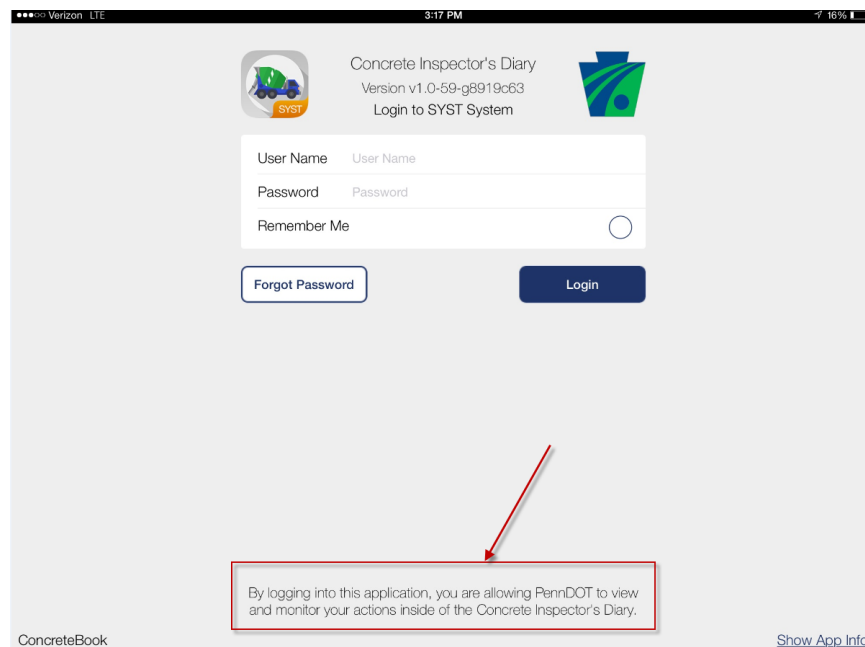
App Settings

The Concrete Inspector's Diary app settings found in the main iPad Settings displays a sync behavior toggle. As a default, the auto sync is **off**. This allows valid records to automatically sync to the server when cellular/Wi-Fi connection is available.



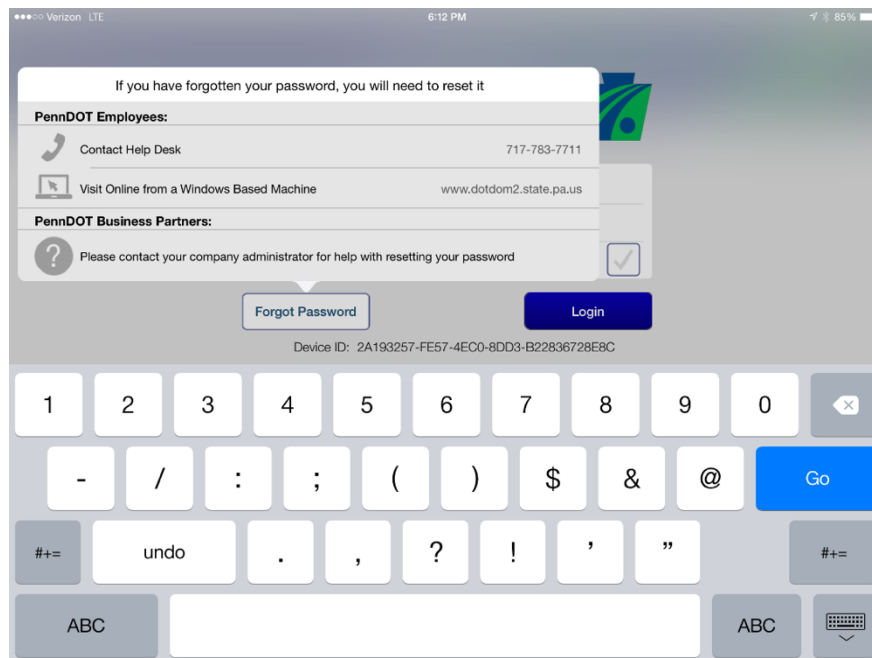
Log In

The Concrete Inspector's Diary log in screen will display after you launch the MCCID app. A Google analytics disclaimer is shown on the Login screen. While using the mobile application, this allows capture of analytical data to track and report on the data. To access the MCCID app, enter your ECMS user name and password. Tap on the "Login" button.



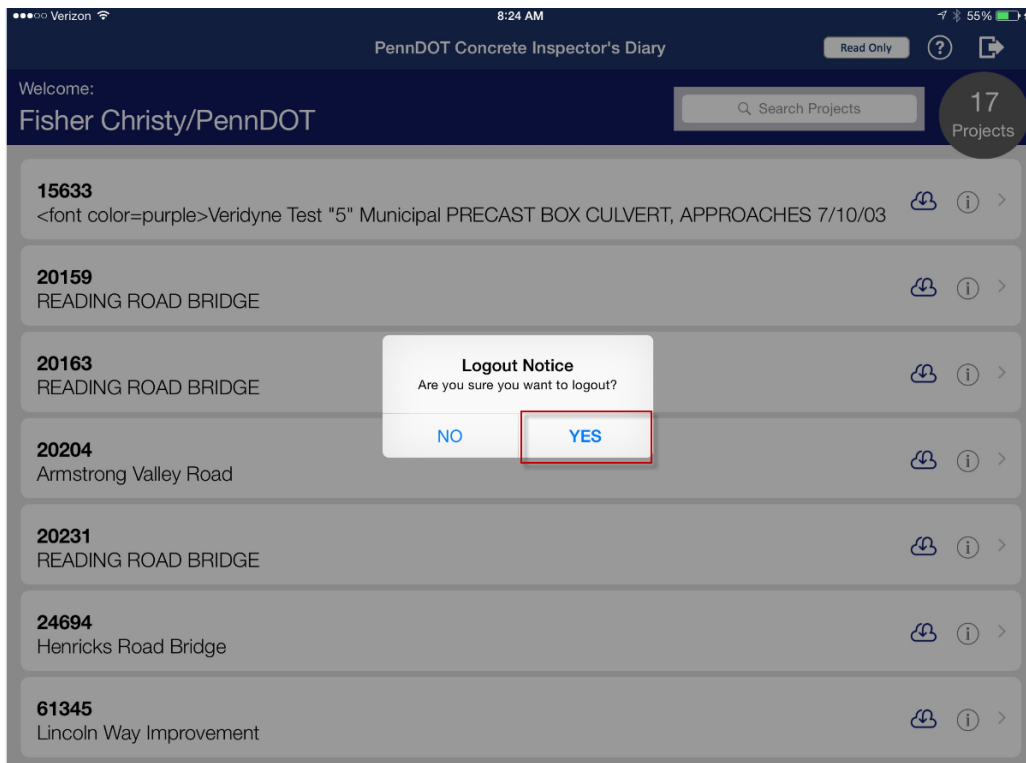
Forgot Password

If you forgot your password, you can click the "Forgot Password" button for assistance options.




Log Out

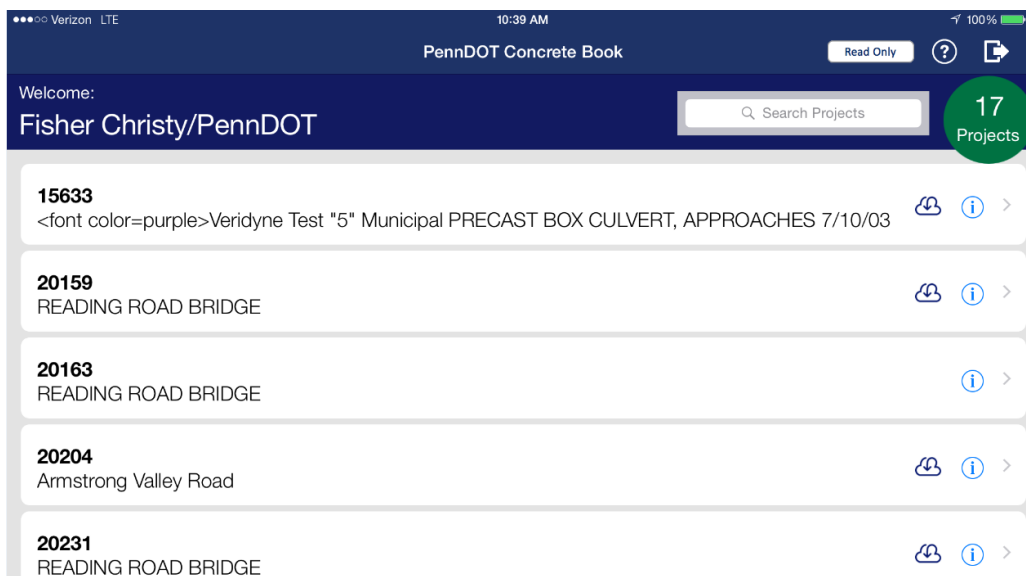
To log out of the MCCID app, click the “Log Out” button in the upper right hand corner of the screen.



On the pop up that is displayed, click “YES” to be logged out of the app or “Cancel” to dismiss.

Help Documents and Contact Information

The help function is available throughout the Concrete Book app by tapping  button in the upper right hand corner.



On the help screen, you can access help documents including the ECMS Password Reset Guide, iPad User Guide, and the Concrete Book User Guides. It also provides contact information for the IT service desk in the event of any app issues. To navigate back to the Projects screen, tap “Done”

Data Status

Throughout the app, icons represent the status of captured data in the app. Below are the common icons within the MCCID app.



Ready to be synced to server



Sync errors



Validation Warning



Validation Error

Project List Screen

Successful authentication presents the assigned PennDOT Concrete Book Project List screen. Each project lists the ECMS number and Project name.

Additional Project Information

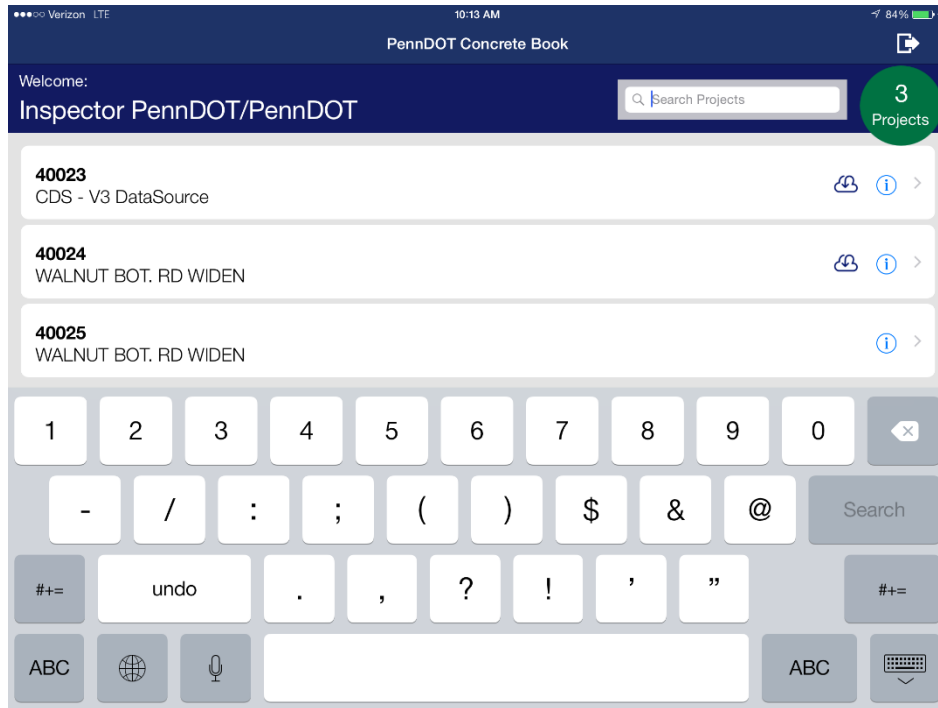
In addition to the ECMS Number and Project name, tap the info icon to view the Prime Contractor, SR/Section, District, County, and Short Description for the project.



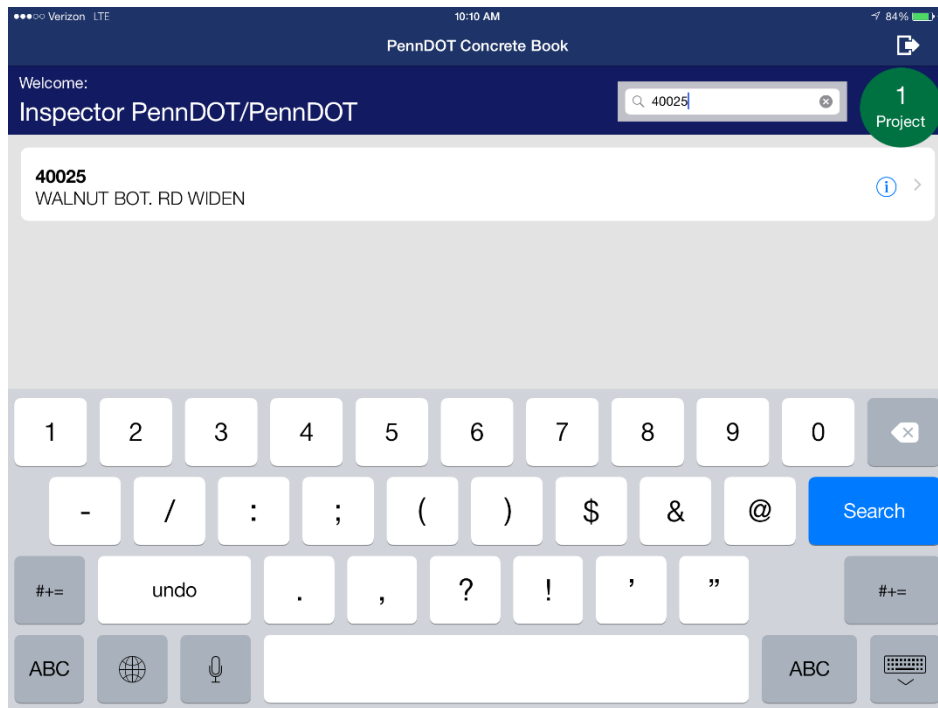
Searching Projects

The Project List screen includes a search function for quickly filtering your list of projects if it becomes large. Searched project information includes the ECMS number, Name, State Route, and Section.

To perform a search, tap in the search box to bring up the keyboard.



Begin typing known characters of the desired project. The list will adjust dynamically to quickly cull the list of projects.

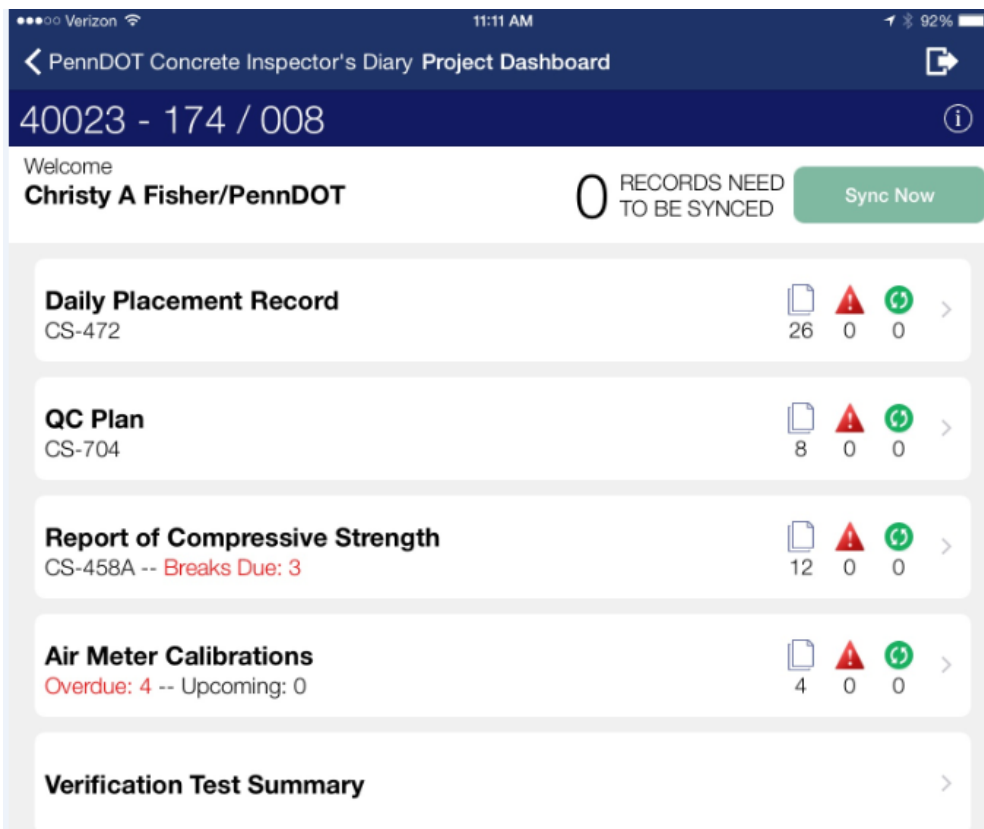


Selecting a Project

To select a project, click anywhere on the Project Information. This will display the Concrete Book Dashboard screen for the project.

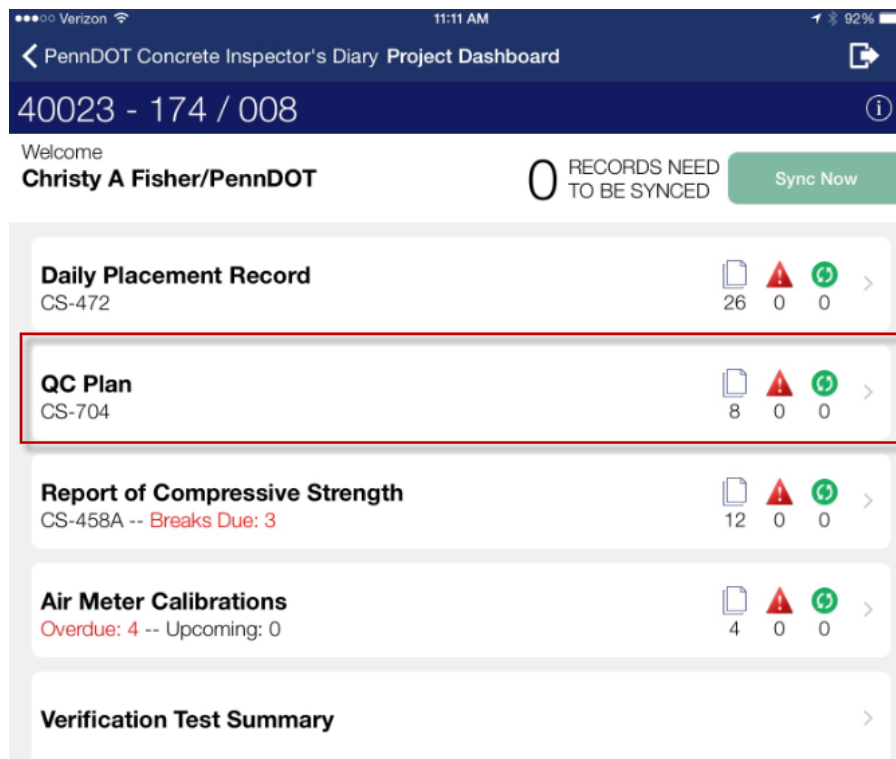
Project Dashboard

The Dashboard consists of Daily Placement Records, Report of Compressive Strength, Air Meter Calibrations and Verification Test Summary. The Project Dashboard screen provides a way to sync the captured data, view the count number for each section and to view more information on the selected project.





QC Plan

The QC Plan section allows the user to enter and save related Material Control and Testing Requirements from the project's QC plan. The saved data allows quick access to prepopulate the Daily Placement Record related fields.



Add/Save QC Plan

To access the QC Plan screen, tap in the QC Plan area. QC Plan screen presents three tabs, Certified Technician, Material Control and Testing Requirements. To add certified technician, tap on the  icon on Certified Technicians tab. To add new Material Control data, tap on the  icon while on the Material Control tab. The Material Control screen will display. All fields are required. Entry of the Supplier Code will display valid JMF's found in the eCAMMS system when selecting the Class of Concrete. Tap the "QC Plan" button to go back to the QC Plan screen. Repeat the same process to add Testing Requirements while on the Testing Requirements tab.

Verizon 12:44 PM 100%

QC Plan Material Control

Contractor

Type of Placement Part of Structure Concrete Placed In

Supplier Name Supplier Code

Class of Concrete

Target Slump Slump Range

Lower Upper

Slump Upper Limit Slump Action Points

Lower Upper

Verizon LTE 11:36 AM 95%

Project Dashboard QC Plan

CERTIFIED TECHNICIANS MATERIAL CONTROL TESTING REQUIREMENTS

Full Name Cert No. Exp. Date Has Card?

Devin McGregory 72973834F 06/10/2016 ✓

Air Range

Lower	Upper
-------	-------

Air Action Points

Lower	Upper
-------	-------

Concrete Temperature Range

Lower	Upper
-------	-------

Temperature Action Points

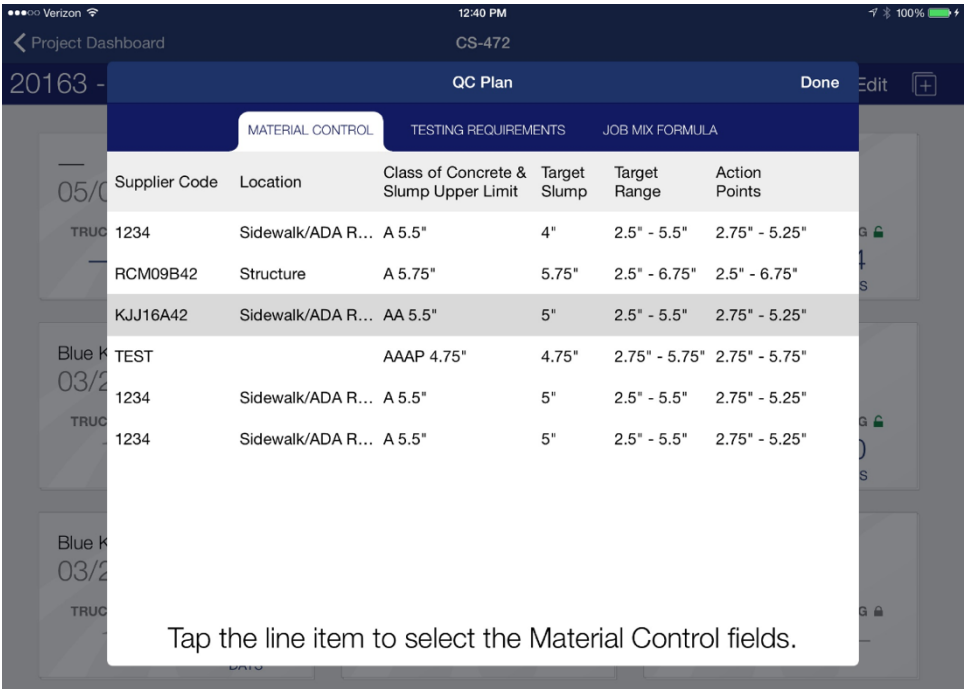
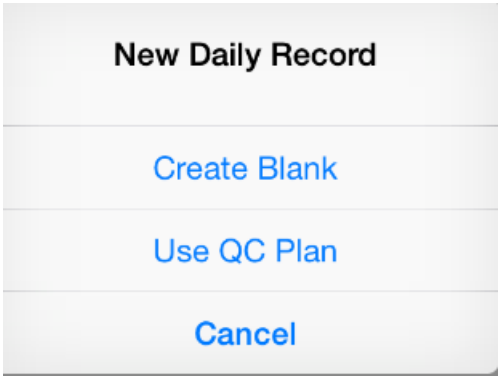
Lower	Upper
-------	-------

Air Temperature Range

Lower	Upper
-------	-------

Accessing Saved QC Plan

New Daily Placement Records will display an option to use the saved QC Plan data at the initial creation of the Daily Placement Record. Tap the “Use QC Plan” button to present the QC Plan screen. The Material Control tab, Testing Requirements tab and the Job Mix Formula tab break down the QC Plan screen. Tap the line item to select the Material Control fields. Tap the “Done” button with completion of all three selections to populate the Daily Placement Record related fields.



Verizon 12:40 PM 100%

Project Dashboard CS-472

20163 - QC Plan Done Edit

MATERIAL CONTROL TESTING REQUIREMENTS JOB MIX FORMULA

Concrete Temperature Range	Concrete Temperature Action Points	Air Temperature Range	Air Content Range	Air Content Action Points
50° - 80°	55° - 75°	40° - 80°	2% - 6%	2% - 6%
30° - 40°	35° - 35°	40° - 80°	2% - 6%	2% - 6%
30° - 40°	35° - 35°	40° - 80°	2% - 6%	2% - 6%
50° - 90°	55° - 85°	50° - 90°	2% - 7%	2% - 7%

Tap the line item to select the Testing Requirement fields.

Verizon 12:40 PM 100%

Project Dashboard CS-472

20163 - QC Plan Done Edit

MATERIAL CONTROL TESTING REQUIREMENTS JOB MIX FORMULA


Supplier Code	Class of Concrete	JMF Mix No	Mix Trial	W/C Ratio
KJJ16A42	AA	4122E	3	0.41
KJJ16A42	AA	4122E	4	0.39
KJJ16A42	AA	412S	T	0.453
KJJ16A42	AA	412S	1	0.433
KJJ16A42	AA	412S	2	0.413
KJJ16A42	AA	412S	3	0.393
KJJ16A42	AA	412S	4	0.373
KJJ16A42	AA	4122	T	0.47
KJJ16A42	AA	4122	1	0.45
KJJ16A42	AA	4122	2	0.43
KJJ16A42	AA	4122	3	0.41

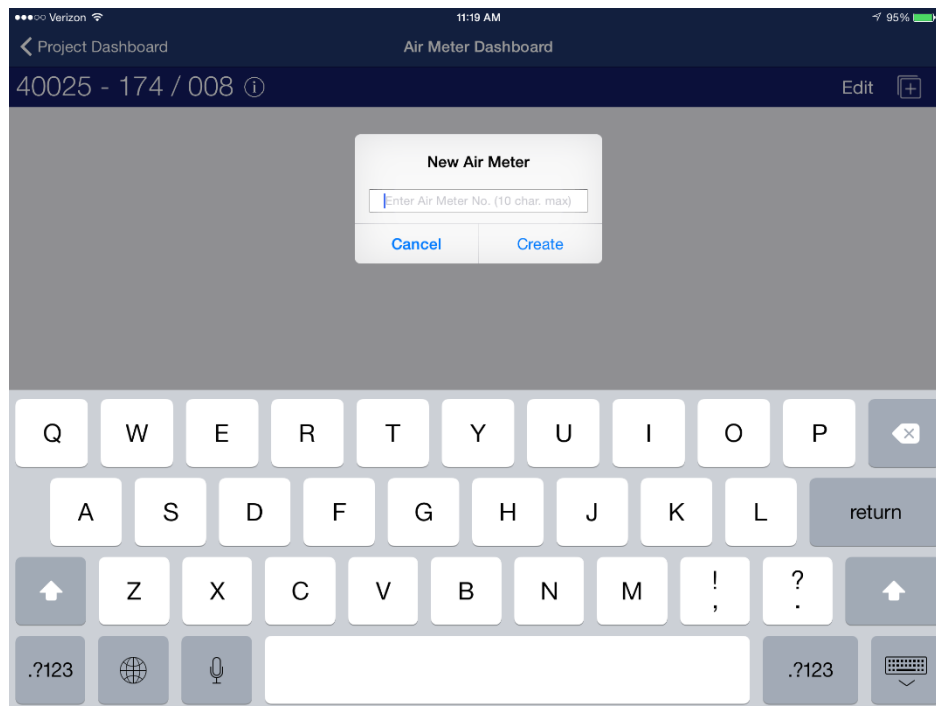
The “QC Plan” button located on the Project Dashboard screen is another option to select the saved QC Plan data.

Air Meter Calibrations

Air meter data is necessary to start your first initial Daily Placement Record. Overdue or upcoming Air Meter Calibrations will display on the Project Dashboard in the Air Meter Calibrations area. Re-calibration of overdue Air Meters are necessary to enable the use in a Daily Placement Record. To access the Air Meter Dashboard, tap in the Air Meter Calibrations area.

Air Meter Dashboard – New Air Meter


To add a new air meter, tap on the  icon. A prompt will ask to enter in the Air Meter number. Tap on the “Create” button to continue to capture the calibration data of the air meter. Tap the “Cancel” button to go back to the Air Meter Dashboard. Existing Air Meter Data displays on the Air Meter Dashboard.



Air Meter Dashboard – Delete Air Meter

Unlocked sync'd Air Meters can be deleted. To delete an Air Meter tap the “Edit” button. Tap on the card to present the checkmark then tap the “Delete” button.


Air Meter Calibration

The Air Meter Calibration screen will prepopulate most fields. Fields are editable except for Air Meter No. on this screen. Tap the  icon within the Comments section to present the comment screen to captured comments. Tap the < Calibrations to present the Calibrations screen.

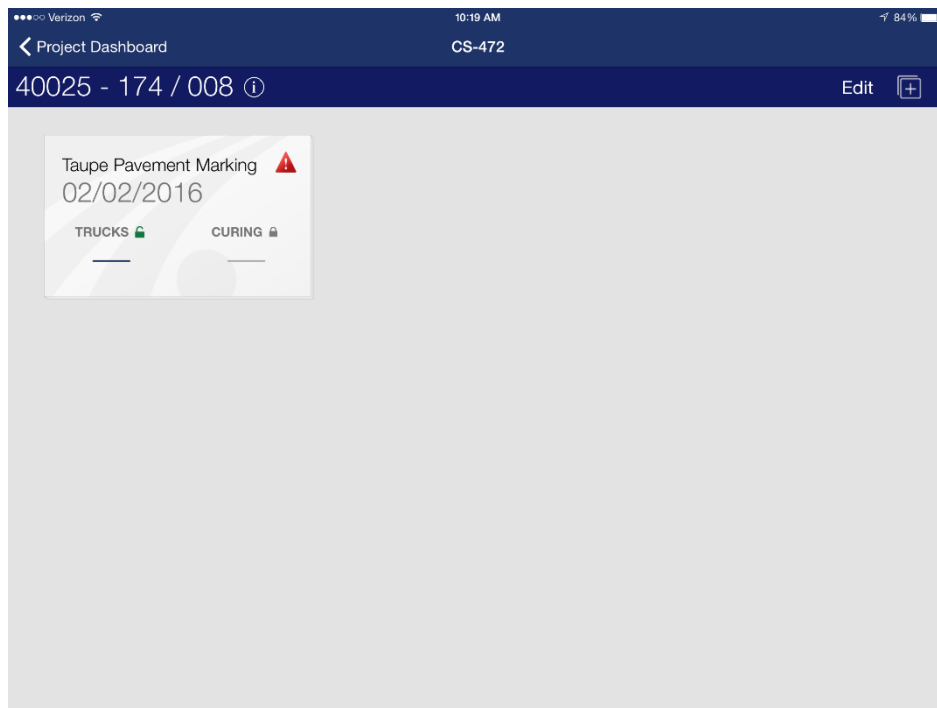
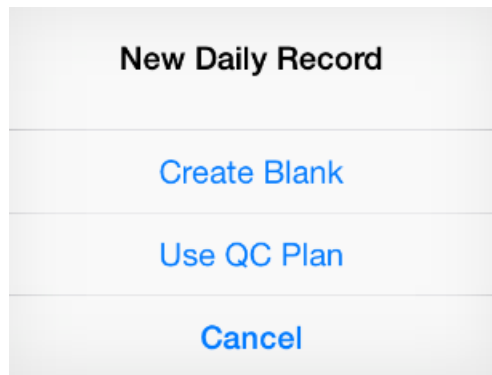
Create New/Edit Daily Placement Records

Tap on the Daily Placement Record from the Project Dashboard to present the CS-472 screen.

Add New Daily Placement Record

To add a New Daily Record, tap on the  icon. The New Daily Record screen will display. Projects with saved QC Plans will present the New Daily Record screen.

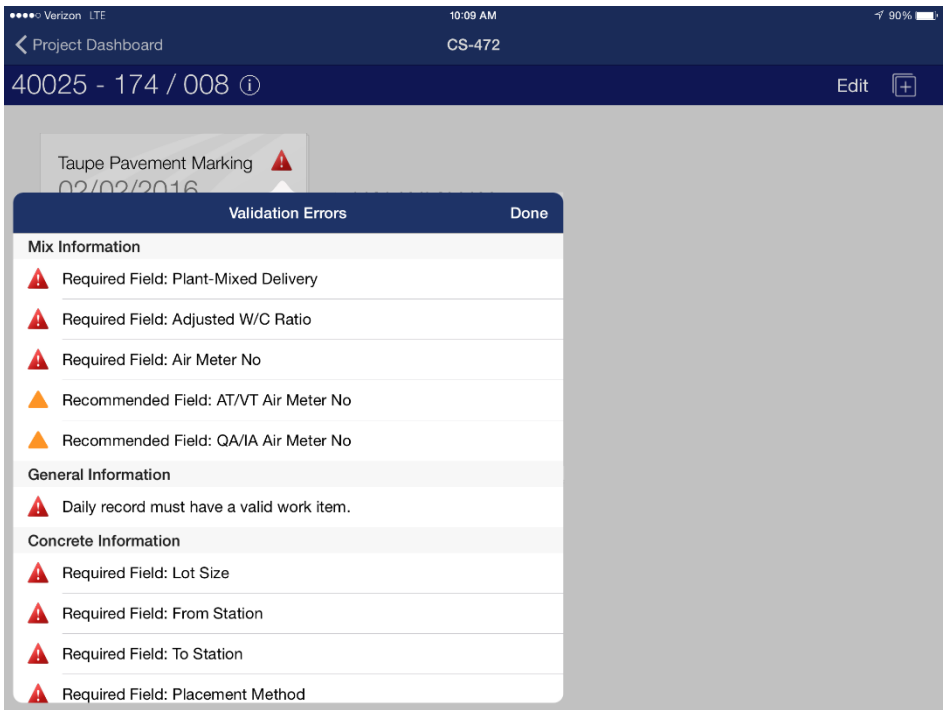
QC Plan” button will present the QC Plan screen. The “Create Blank” button will present the Daily Record without any prepopulated QC Plan related fields.



View Daily Placement Record

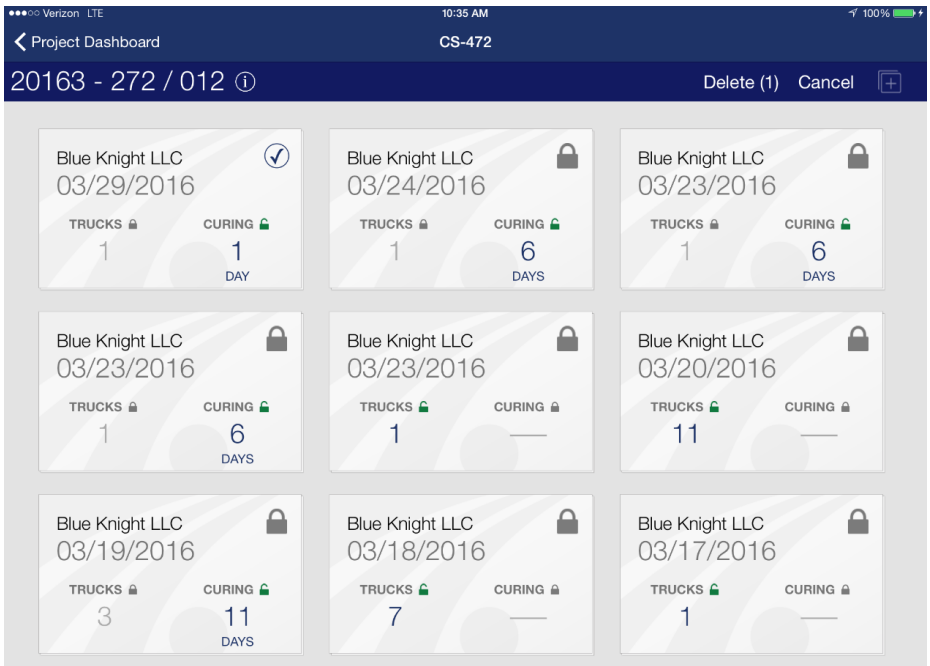
Existing Daily Records will display in a summary card format on the CS-472 screen. The card will display the sync icon or the validation icon. The Truck lock icon will remain open until the sync is complete for the Daily Placement Record.

Tap the validation icon to view a complete list of validation errors. Each validation directs you to the location of the error while tapping the line error line item. Tap the “Done” button to close the Validation Errors screen.



Delete Daily Placement Records

Unlocked sync'd Daily Placement Records can be deleted. To delete a Daily Placement Record, tap the “Edit” button. Tap on the card to present the checkmark then tap the “Delete” button.



Daily Placement Record – Placement

The Placement tab captures the general information of the concrete pour. General, Concrete, Mix, Slump, Air and Temperature are separate tabs to capture the necessary data. Tap the tab to collect the data for each section. Material Control data, Testing Requirements & Job Mix Formula data has the save option in the QC Plan section. Reference the QC Plan manual for more information on how to save and populate the saved data.

Placement General

Displayed in red are the required fields. Validation and warning icons display with messages to guide you to seek the correct data. The correct supplier code from the dropdown list is necessary to capture the correct JMF data in the QC Plan section.

The screenshot shows a mobile application interface for a 'Daily Placement Record' dated 05/06/2016. The 'GENERAL' tab is selected. The form contains the following fields:

- ECMS Project No.:** 40022
- Work Item:** (Red box with warning icon)
- Released By:** Christy A Fisher/PennDOT
- Date:** 05/06/2016 11:46 AM
- Supplier Name:** (Red box with warning icon)
- Supplier Code:** (Red box with warning icon)
- Contractor:** (Red box with warning icon)
- Type of Curing:** (Red box with warning icon)
- Weather:** (Red box with warning icon)

A left sidebar contains icons for Placement, PTM, Trucks, Comments, Wire Mesh, Summary, Signatures, and Curing Logs.

Placement Concrete

Displayed in red are the required fields. Validation and warning icons display with messages to guide you to seek the correct data.

Verizon LTE 1:40 PM 100%

< CS-472 Daily Placement Record - 04/13/2017 QC Plan

Placement GENERAL CONCRETE MIX SLUMP AIR TEMPERATURE

	CY for Day	Wasted	Used	Rejected
	0.00	0.00	0.00	0.00
From Station			To Station	
Placement Method				
Type of Placement	Part of Structure Concrete Placed In			

PTM
Trucks
Comments

Wire Mesh
Summary
Signatures
Curing Logs

Placement Mix

Displayed in red are the required fields. Validation and warning icons display with messages to guide you to seek the correct data.

The Air Meter data entered in the Air Meter Calibration section displays in the Air Meter # field dropdown.

Verizon LTE 11:47 AM 45%

< CS-472 Daily Placement Record - 05/06/2016 QC Plan

Placement GENERAL CONCRETE MIX SLUMP AIR TEMPERATURE

Plant-Mixed Delivery

Class of Concrete

JMF Mix ID Mix # Adj. W/C Ratio

Air Meter # AT/VT Air Meter No QA/IA Air Meter No

Tap the QC Plan button in the top right to select your Job Mix Formula.

PTM
Trucks
Comments

Wire Mesh
Summary
Signatures
Curing Logs

Placement Slump, Air and Temperature

Displayed in red are the required fields. Validation and warning icons display with messages to guide you to seek the correct data. Data saved in the QC Plan will prepopulate these fields. Note that slump fields will round down to closest quarter. Air fields should only take half increments will round down to closest half.

Daily Placement – Slump

Placement

PTM

Trucks

Comments

Wire Mesh

Summary

Signatures

Curing Logs

CS-472

Daily Placement Record - 05/06/2016

QC Plan

GENERAL

CONCRETE

MIX

SLUMP

AIR

TEMPERATURE

Target Slump

Slump Range

Slump Upper Limit

Slump Action Points

LowerUpper

LowerUpper



Daily Placement – Air

Verizon LTE 11:47 AM 45%



< CS-472 Daily Placement Record - 05/06/2016 QC Plan

Placement

GENERAL CONCRETE MIX SLUMP AIR TEMPERATURE

Air Range  

Lower Upper

Air Action Points  

Lower Upper

PTM

Trucks

Comments

Wire Mesh

Summary

Signatures

Curing Logs



Daily Placement – Temperature

Verizon LTE 11:47 AM 45%



< CS-472 Daily Placement Record - 05/06/2016 QC Plan

Placement



GENERAL CONCRETE MIX SLUMP AIR TEMPERATURE

Concrete Temperature Range  

Lower Upper

Temperature Action Points  

Lower Upper

Air Temperature Range  

Lower Upper

PTM

Trucks

Comments

Wire Mesh

Summary

Signatures

Curing Logs

Add PTM to the Daily Record

The Specimen Type dropdown displays the Acceptance Test selection only. Upon selection, the system automatically populates the remaining fields. Cylinder Series and Random No fields are editable. The cylinder series is unique and will

generate an error message at the time of sync if the number already exist for that project. Field staff communication is necessary to help assist duplication of the cylinder series number.

Verizon LTE 12:59 PM 77%

< CS-472 Daily Placement Record

Specimen Type

Placement

PTM

Cylinder Series

Construction Area **P**

Class **AA** Random No Random Decimal Fraction

Lot Size CY Tested Test Loads

Trucks

Comments

Wire Mesh

Summary

Signatures

Curing Log

First Prev [New PTM Test Location](#) Next New

Verizon LTE 1:44 PM 100%

< CS-472 Daily Placement Record - 04/13/2017

Specimen Type

Acceptance Test

PTM

Cylinder Series

Construction Area **P**

Class **AAA** Random No **1** Random Decimal Fraction **0.29**

Lot Size **42** CY Tested **12.18 CY** Test Loads **2**

Trucks

Comments

Wire Mesh

Summary

Signatures

Curing Log

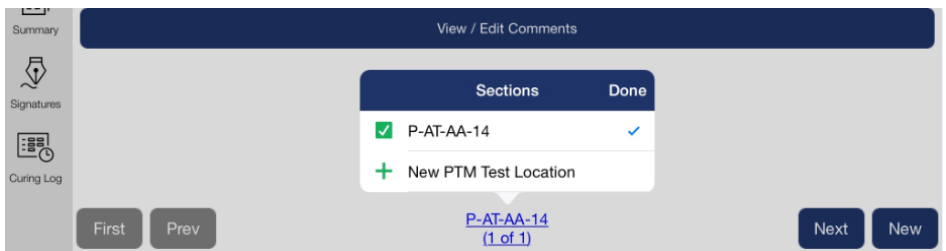
[View / Edit Comments](#)

First Prev [P-AT-AAA-1 \(1 of 1\)](#) Next New

Adding multiple PTM's

To add additional PTM's to the Daily Record, tap on the New button. Upon selection, the system automatically populates the remaining fields. The Cylinder Series number will increment by one from the previous entered PTM. The Random No field remains editable and data changes result in a recalculation of the Random Decimal Fraction, CY Tested and Test Load fields.

The other option to add a new PTM Test location is to tap the New PTM Test Location/Cylinder Series link. The sections screen displayed includes the New PTM Test Location line item. Tap on the line item to add a new PTM.



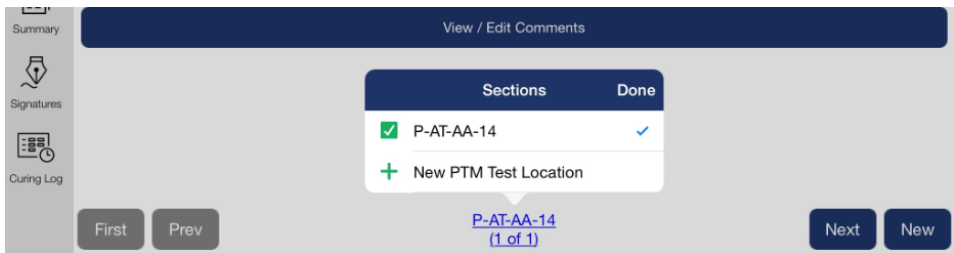
Navigating multiple PTMs

There are two ways to navigate when more than one PTM captured. Tap on the “First”, “Prev” and “Next” buttons located on the screen. Table 1 provides a description of each button.

Button	Button Description
First	Navigates to the First PTM entered.
Prev	Navigates to the Prev PTM entered.
Next	Navigates to the Next PTM entered.

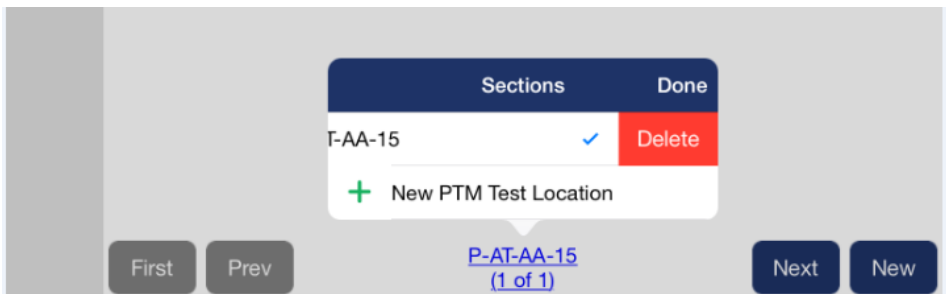
Table 1

Another option is to tap on the link to present the Sections screen. Cylinder Series number lists the display of the PTMs. Tap on the line to view the captured data.



Delete PTM

PTM data can be deleted if the data has not been sync’d to the server. Tap the trash can located on the top right corner of the PTM screen. The other option is to tap on the Cylinder Series link to display the PTMs in the Sections screen. The swipe left feature enables the display of the “Delete” button. Tap the “Delete” button, to delete the data.



Add PTM Comment

To add a comment to any PTM, tap the “Add Comment” button. The display of the Comment screen provides an option to enter multiple comments. To add a comment, tap the + button. All saved comments will display on the main Comments screen.

Comment	Created	Created By
PTM comment	02/12/2016 09:51 AM	Inspector PennDOT/PennDOT

Add Truck/Truck Test to the Daily Record

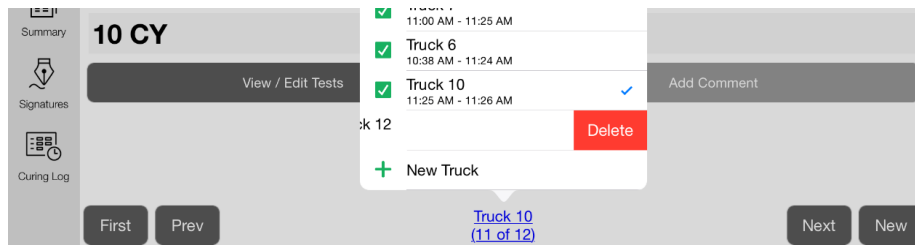
Truck and Truck Test data entry is in the Truck section of the Daily Placement record. Displayed in red are the required fields. Validation and warning icons display with messages to guide you to seek the correct data.

When truck test is required, tap on the “XX Test Required” button. In the screen shot below, the “QC Test Required” button displays. For information on how to add a test to the truck, reference the Add Test to Truck section of this document.

TEST TYPE	SLUMP	AIR	TEMP	W/C RATIO	NO. CYLS. MOLDED	REJECT?	CYL. SERIES

Adding multiple Trucks

To add additional Trucks to the Daily Record, tap on the “**New**” button. The other option to add a new truck is to tap the Truck # link. The Sections screen displays the New Truck line item. Tap on the line item to add a new Truck.



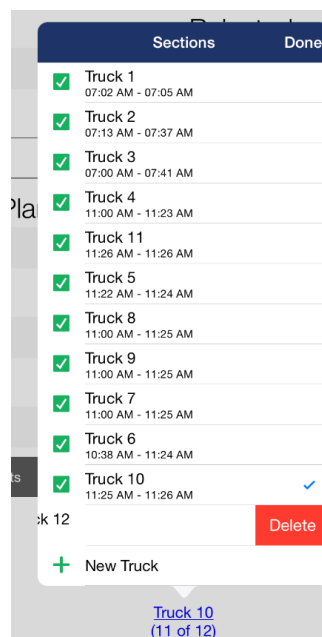
Navigating multiple Trucks

There are two ways to navigate when there is more than one truck. Tap on the **“First”**, **“Prev”** and **“Next”** buttons located on the screen. Table 2 provides a description of each button.

Button	Button Description
First	Navigates to the First Truck entered.
Prev	Navigates to the Prev Truck entered.
Next	Navigates to the Next Truck entered.

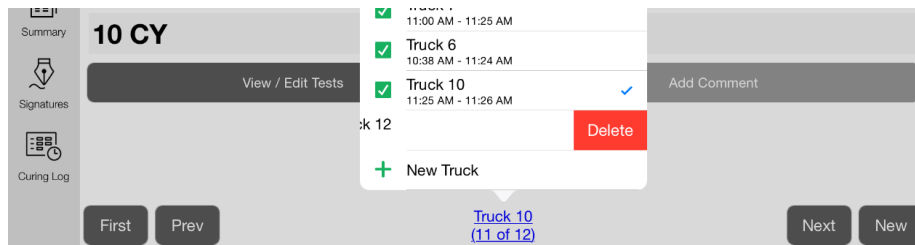
Table 2

Another option is to tap on the Truck # link to present the Sections screen. A list of Truck #'s display. Tap on the Truck # to view the captured data.



Delete a Truck

Truck data can be deleted if the data has not been sync'd to the server. Tap the trash can located on the top right corner of the Truck screen. The other option is to tap on the Truck # link to display the trucks in the Sections screen. The swipe left feature enables the display of the **“Delete”** button. Tap the **“Delete”** button, to delete the data.



Add Truck Comment

To add a comment to any Truck, tap the “Add Comment” button. The display of the Comment screen provides an option to enter multiple comments. To add a comment, tap the **+** button. All saved comments will display on the main Comments screen.

Add Tests to a Truck

Upon selection of the Test Type, required fields display in red. Validation and warning icons display with messages to guide you to seek the correct data.

Verizon LTE

9:47 AM

← Daily Placement Record - 07/23/2018

Truck No	CY	Serial No	Time
5	10.00	TG	09:36 AM - 09:44 AM

Test Type

Cylinder Series No

Slump

Air

Temp.

W/C Ratio

No. Cyls. Molded

Rejected

Yes

No

First

Prev

[New Test](#)
(1 of 1)

Next

New

IMPORTANT: Population of the No. Cyls Molded field will populate the associated Cylinder Series No in the dropdown of the CS-458a.

Using W/C Calculation screen

To calculate W/C ratio tap the calculator button at the top right of the test screen. Use the toggle at the top of the screen to pick which calculation you want to do. “Total Water”, “Total Cementitious”, and “W/C Calculation = Total Water/Total Cementitious” which are calculated. Tap “Set W/C” in top right to save the result to the truck test. Note that only the W/C ratio is saved. All other fields are just for calculations and not saved when the screen is dismissed.

Verizon LTE 11:22 AM 100%

< IA Test W/C Calculation Set W/C

Calculate W/C From Batcher - Mixer Slip Calculate W/C From Materials Ticket

Concrete (CY)	Batched Mixing Water (LB)
10	1900
Pozzolan Weight (LB)	Ice (LB)
5020	0
Portland Cement Weight (LB)	Wash Down Water (Gallons)
885	0
Fine Aggregate Weight (LB)	Added Water (Gallons)
12270	0
Course Aggregate Weight (LB)	Fine Aggregate Moisture %
17730	5.2
Total Cementitious	Coarse Aggregate Moisture %
5905.0	.8
Total Water	W/C Calculation = Total Water/Total Cementitious
2647.22	0.45

Verizon LTE 11:21 AM 100%

< IA Test W/C Calculation Set W/C

Calculate W/C From Batcher - Mixer Slip Calculate W/C From Materials Ticket

Concrete (CY)	Batched Mixing Water (LB)
10	1947
Pozzolan Weight (LB)	Ice (LB)
500	0
Portland Cement Weight (LB)	Wash Down Water (Gallons)
88	10
	Added Water (Gallons)
	0
	Surface Moisture in Aggregates (LB)
	62
Total Cementitious	
5880.0	
Total Water	W/C Calculation = Total Water/Total Cementitious
2650.3	0.45

Adding multiple Truck Test

To add additional Truck test to the Daily Record, tap on the “New” button. The other option to add a new truck test is to tap the Test Type link. The Sections screen displays the New Truck line item. Tap on the line item to add a new Truck. Truck test display as a summary on the Daily Placement Record Truck screen.

Rejected

Yes

No

Cylinder Series No

P-QC-AAA-1

First

Prev

QC Test (1 of 1)

Next

New

Verizon LTE

2:38 PM

100%

< CS-472

Daily Placement Record - 04/13/2017

Placement

PTM

Trucks

Comments

Wire Mesh

Summary

Signatures

Curing Logs

Truck No

1-WE

Rejected

No

CS-4220 Received

Yes

No

CS-4337 Received

Yes

No

Serial No. Concrete Plant Slip

ER-23

Total Mixing Water

235.00 GAL

Time Mixed

04/13 07:00 AM

Time Discharged

04/13 07:24 AM

CY Total

10.00 CY

CY Wasted

0.00 CY

Total Rev.

Add Test

Add Comment

TEST TYPE	SLUMP	AIR	TEMP	W/C RATIO	NO. CYLS. MOLDED	REJECT?	CYL. SERIES
QC	5.50 in	4.90%	56°	0.460	10	N	P-QC-AAA-1
AT	5.50 in	4.90%	55°	0.490	10	N	P-AT-AAA-1
VT	--	5.00%	55°	0.460	8	N	P-VT-AAA-1

First

Prev

Truck 1-WE (1 of 1)

Next

New

Navigating to multiple Truck Tests

There are two ways to navigate when there is more than one truck test. Tap on the “First”, “Prev” and “Next” buttons located on the screen. Table 3 provides a description of each button.

Button	Button Description
First	Navigates to the First Truck Test entered.
Prev	Navigates to the Prev Truck Test entered.
Next	Navigates to the Next Truck Test entered.

Table 3

Another option is to tap on the Test Type link to present the Sections screen. A list of Truck Tests display. Tap on the Test Type to view the captured data.

Sections

Done

Truck 45

✓

Delete

AM - 01:10 AM

+ New Truck

First

Prev

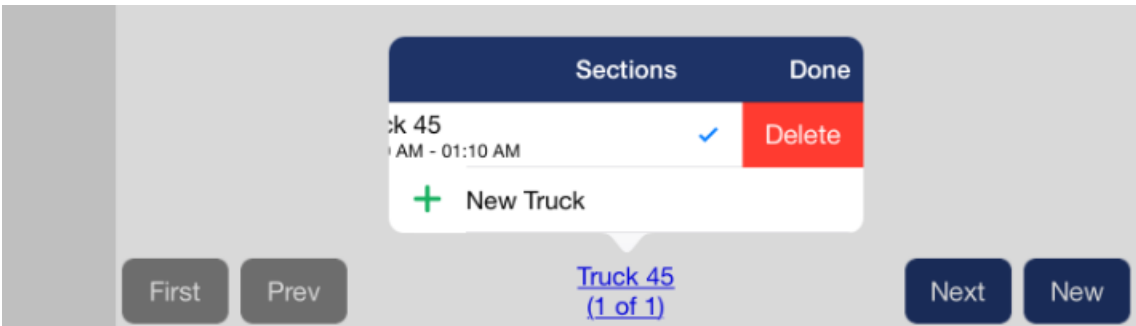
Truck 45 (1 of 1)

Next

New

Delete a Truck Test

Truck test data can be deleted if the data has not been sync'd to the server. Tap the trash can located on the top right corner of the Truck Test screen. The other option is to tap on the Test Type link to display the test in the Sections screen. The swipe left feature enables the display of the "Delete" button. Tap the "Delete", to delete the data.

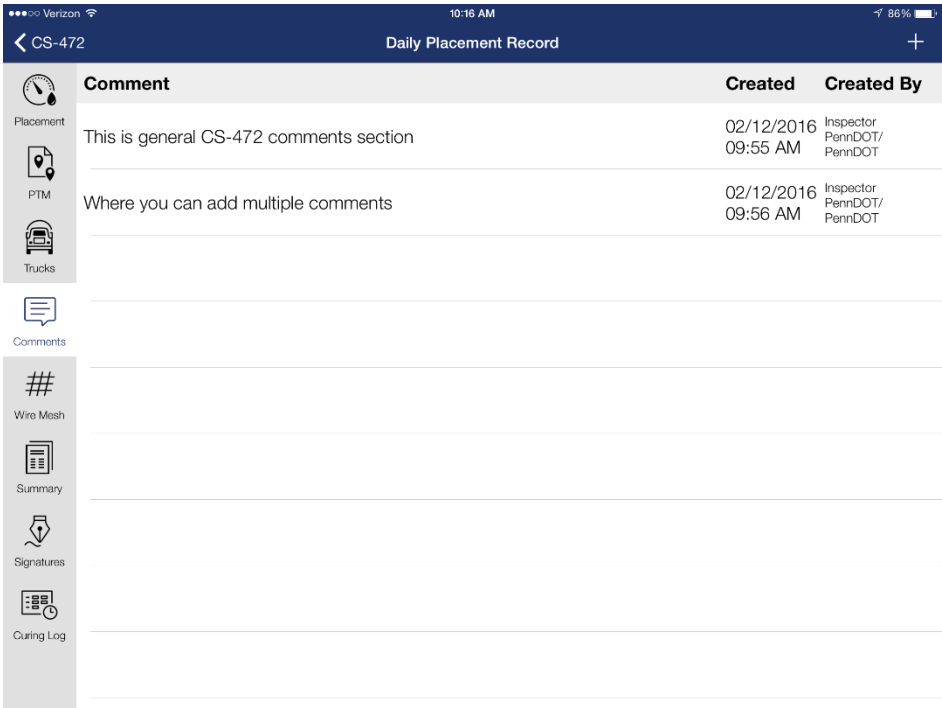


Add Truck Test Comment


To add a comment to any Truck test, tap the "Add Comment" button. The display of the Comment screen provides an option to enter multiple comments. To add a comment, tap the + button. All saved comments will display on the main Comments screen.

Add Comments to Daily Record

The Comments section of the Daily Placement Record captures general comments. Created By and Created fields captures the date and time entry. To add a comment, tap the + icon located on the top right hand corner of the screen.



Add Wire Mesh Information to Daily Record

Wire Mesh information is not required but available to capture the specific data. To add Wire Mesh data to the Daily Placement Record tap the  button. The Location, Dry Depth and Wet Depth fields are open fields. To modify the prepopulated date, tap on the date field to present the data picker.

CS-472

Daily Placement Record


+

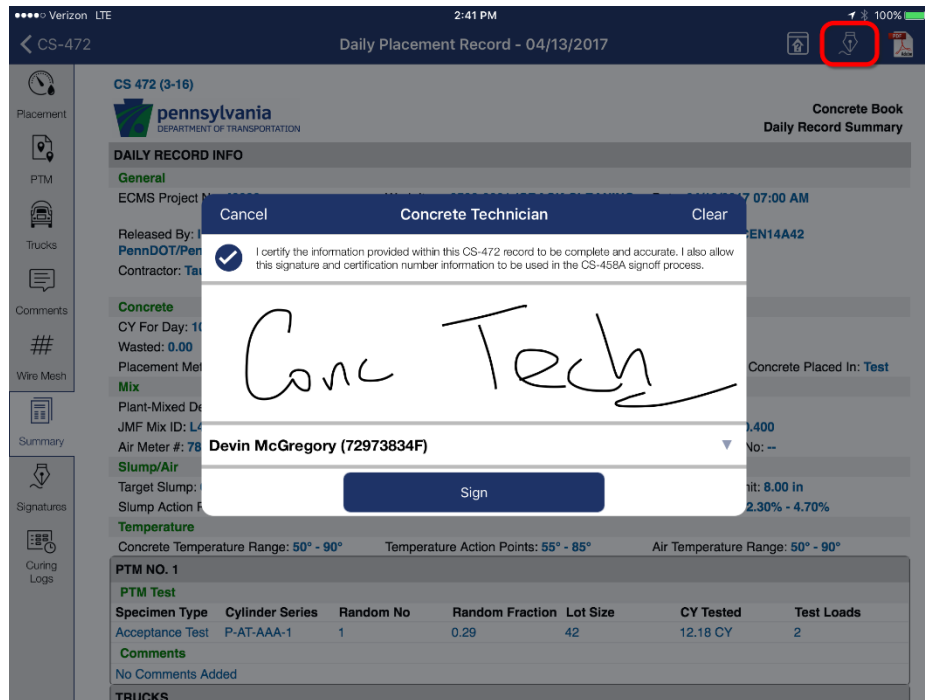
	Date	Location	Dry Depth	Wet Depth
Placement	02/02/2016	Location1	1.00 in	1.25 in
PTM				
Trucks				
Comments				
Wire Mesh				
Summary				
Signatures				
Curing Log				

Delete a Wire Mesh

Wire Mesh data can be deleted if the data has not been sync'd to the server. The swipe left feature on the selected line item enables the display of the "Delete" button. Tap the "Delete" button, to delete the data.

Review Summary Report and Sign the Daily Record

A summary of the data collected is viewable in the Summary tab. Signoff of the collection of data is required. Tap on the  icon to present the sign off screen. Certifying the information provided within the Daily Placement is necessary to enable the “Sign” button. Tap the sign button to sync the data. First required signature needs to be obtained from the concrete technician.



Verizon LTE 2:41 PM 100%

CS-472 Daily Placement Record - 04/13/2017

Concrete Book Daily Record Summary

CS 472 (3-16)

pennsylvania DEPARTMENT OF TRANSPORTATION

DAILY RECORD INFO

General

ECMS Project

Released By: PennDOT/PennDOT

Contractor: TAI

Concrete

CY For Day: 10

Wasted: 0.00

Placement Method

Mix

Plant-Mixed Design

JMF Mix ID: L4

Air Meter #: 78

Slump/Air

Target Slump: 8.00 in

Slump Action Factor: 2.30% - 4.70%

Temperature

Concrete Temperature Range: 50° - 90° Temperature Action Points: 55° - 85° Air Temperature Range: 50° - 90°

PTM NO. 1

PTM Test

Specimen Type	Cylinder Series	Random No	Random Fraction	Lot Size	CY Tested	Test Loads
Acceptance Test	P-AT-AAA-1	1	0.29	42	12.18 CY	2

Comments

No Comments Added

TRUCKS

Concrete Technician

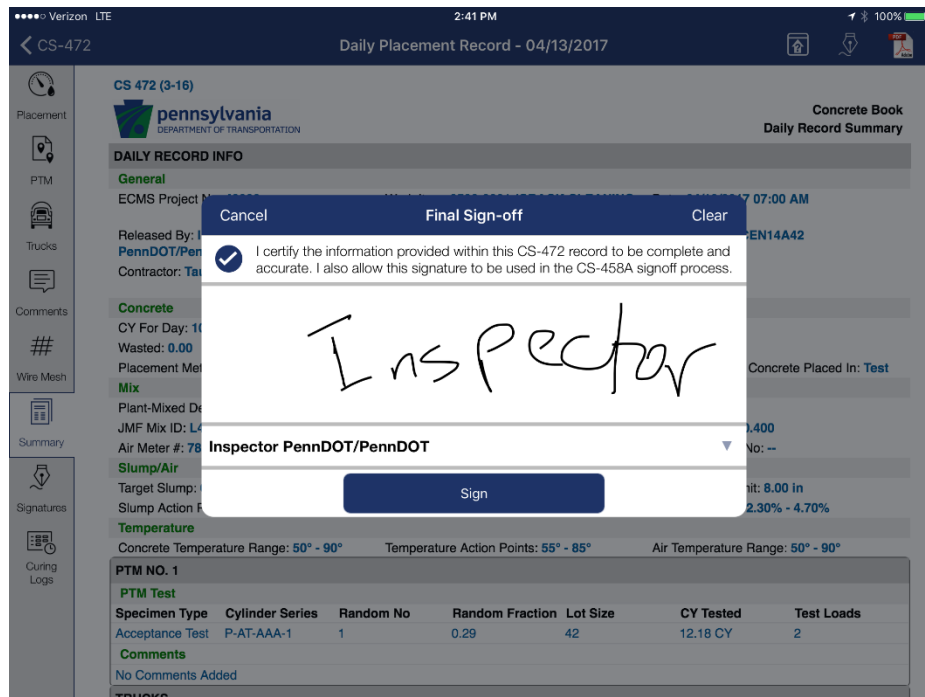
I certify the information provided within this CS-472 record to be complete and accurate. I also allow this signature and certification number information to be used in the CS-458A signoff process.

Conc Tech

Devin McGregory (72973834F)

Sign

Next signature needs to be placed by the Inspector. Both these signatures then will be used in CS-458A report signoff.



Verizon LTE 2:41 PM 100%

CS-472 Daily Placement Record - 04/13/2017

Concrete Book Daily Record Summary

CS 472 (3-16)

pennsylvania DEPARTMENT OF TRANSPORTATION

DAILY RECORD INFO

General

ECMS Project

Released By: PennDOT/PennDOT

Contractor: TAI

Concrete

CY For Day: 10

Wasted: 0.00

Placement Method

Mix

Plant-Mixed Design

JMF Mix ID: L4

Air Meter #: 78

Slump/Air

Target Slump: 8.00 in

Slump Action Factor: 2.30% - 4.70%

Temperature

Concrete Temperature Range: 50° - 90° Temperature Action Points: 55° - 85° Air Temperature Range: 50° - 90°

PTM NO. 1

PTM Test

Specimen Type	Cylinder Series	Random No	Random Fraction	Lot Size	CY Tested	Test Loads
Acceptance Test	P-AT-AAA-1	1	0.29	42	12.18 CY	2

Comments

No Comments Added

TRUCKS

Final Sign-off

I certify the information provided within this CS-472 record to be complete and accurate. I also allow this signature and certification number information to be used in the CS-458A signoff process.

Inspector

Inspector PennDOT/PennDOT

Sign

Concrete Book Daily Record Summary – PDF

A PDF version of the Daily Placement record is available to view, email, print, save to Adobe Acrobat, etc.

Verizon 10:18 AM 86%
CS-472 Daily Placement Record

CS 472 (3-16)
pennsylvania
DEPARTMENT OF TRANSPORTATION

**Concrete Book
Daily Record Summary**

DAILY RECORD INFO

General
ECMS Project No: 40025 Work Item: 0653-0101 (PAVED SHOULDERS, TYPE 3) Date: 02/01/2016 07:47 AM
Released By: Inspector PennDOT/PennDOT Supplier Name: eXtremeConcrete Inc Supplier Code: 100-300
Business Partner: Taupe Pavement Marking

Concrete
CY For Day: 32 Lot Size: 100 Wasted: 2
Used: 30 Station (From/To): 100.00/115.00 Placement Method: Conveyor
Type of Placement: Pavement Placement Method Other: N/A Part of Structure Concrete Placed In: Road

Mix
Plant-Mixed Delivery: Agitator Truck Other Method: N/A Class Of Concrete: AAA
Other Concrete: N/A JMF Mix ID: 114-15-2015 Adj. W/C Ratio: 0.430
Air Meter #: 1 AT/VT Air Meter No: 1 QA/QA Air Meter No: 1

Slump/Air
Target Slump: 5.50 in Slump Range: 2.25 in - 5.50 in Slump Upper Limit: 5.75 in
Slump Action Point: 2.50 in - 5.50 in Air Range: 2.00% - 5.90% Air Action Point: 2.00% - 5.90%

Temperature
Concrete Temperature Range: 50.00° - 90.00° Temperature Action Points: 55.00° - 85.00° Air Temperature Range: 50.00° - 95.00°
Type of Curing: Flood Cure Other Curing: N/A Weather: Clear

PTM NO. 1

Specimen Type	Cylinder Series	Random No	Lot Size	CY Tested	Test Loads
---------------	-----------------	-----------	----------	-----------	------------

Captured signatures display on the signatures screen for viewing.

Verizon 10:18 AM 85%
CS-472 Daily Placement Record

Inspector PennDOT/PennDOT
02/12/2016

Signatures

Add Curing Log Information to the Daily Record

The Curing Log section is available to document the curing process when a signature is captured and the data is sync'd to the server. This section will always remain open in order to capture multiple logs. The data must be sync'd on a regular basis in order to capture all the collected data.

To add Curing Log data to the Daily Placement Record tap the **+** button. The collection of data captured will display as a summary. The logs are broken down displaying Before 24 hours and After 24 hours.

The first screenshot shows the 'Daily Placement Record - 05/04/2016' screen. It features a sidebar with icons for Placement, PTM, Trucks, Comments, Wire Mesh, Summary, Signatures, and Curing Logs. The main area displays a table for the 'First 24 Hrs.' with columns for Curing Log Date, Air Temp, AT/VT Temp (Lower | Upper), QC Temp (Lower | Upper), and Field Thermometer (Lower | Upper). The first entry is for 05/04/2016 at 01:03 PM, with temperatures of 55°, 55°, 75°, 55°, and 70° respectively. The Curing Logs icon is highlighted at the bottom.

The second screenshot shows the 'Curing Log - 04/13/2017 02:56 PM' screen. It displays a form for recording curing log data. The 'Curing Log Date Time' is set to 04/13 02:56 PM, and the 'Checked By' is Inspector PennDOT/PennDOT. The form includes input fields for Air Temperature, AT/VT Temperature (Lower and Upper), QC Temperature (Lower and Upper), and Field Thermometer (Lower and Upper). Each input field has a red warning icon. Below the form is a 'Comments' section with a table for recording comments, including columns for Comment, Created, and Created By.

Curing Log Date	Air Temp	AT/VT Temp Lower Upper	QC Temp Lower Upper	Field Thermometer Lower Upper
First 24 Hrs.				
05/04/2016 01:03 PM	55°	55° 75°	55° 70°	-- --

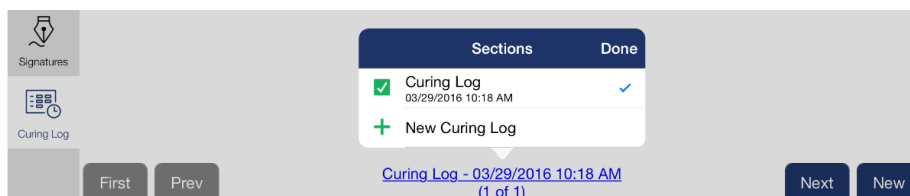
Curing Log Date Time	Checked By
04/13 02:56 PM	Inspector PennDOT/PennDOT

Air Temperature	⚠
AT/VT Temperature	⚠
Lower	Upper
QC Temperature	⚠
Lower	Upper
Field Thermometer	
Lower	Upper

Comments		
Comment	Created	Created By

Adding multiple Curing Logs

To add additional Curing Logs to the Daily Record, tap the “New” button. The other add option is to tap the Curing Log link. The Sections screen displays the New Curing Log line item. Tap on the line item to add the new Curing Log. A summary of curing logs will display on the Curling Log screen.



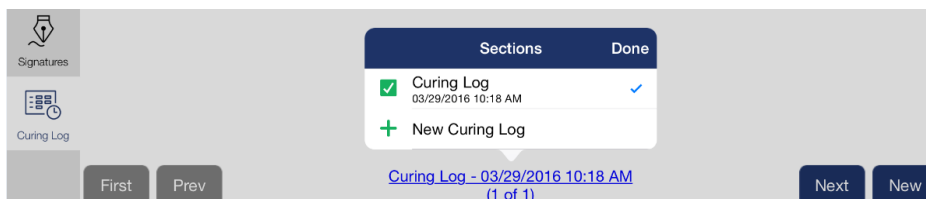
Navigating to multiple Curing Logs

There are two ways to navigate when there is more than one Curing Log. Tap on the “First”, “Prev” and “Next” buttons located on the screen. Table 4 provides a description of each button.

Button	Button Description
First	Navigates to the First Curing Log entered.
Prev	Navigates to the Prev Curing Log entered.
Next	Navigates to the Next Curing Log entered.

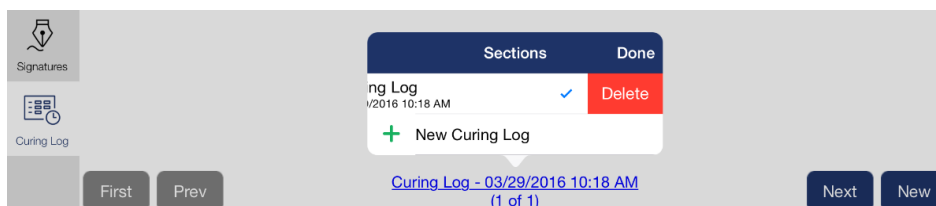
Table 4

Another option is to tap on the Curing Log link to present the Sections screen. A list of Curing Logs display. Tap on the Curing Log to view the captured data.



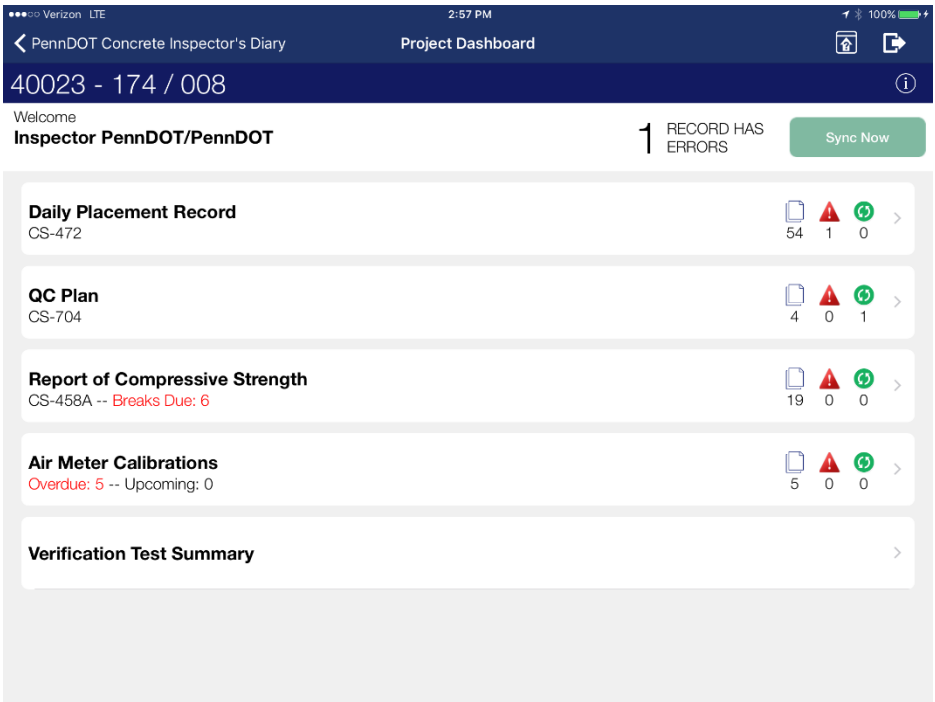
Delete a Curing Log

Curing Log data can be deleted if the data has not been sync'd to the server. Tap the trash can located on the top right corner of the Curing Log screen. The other option is to tap on the Curing Log link to display the logs in the Sections screen. The swipe left feature enables the display of the “Delete” button. Tap the “Delete” button, to delete the data.

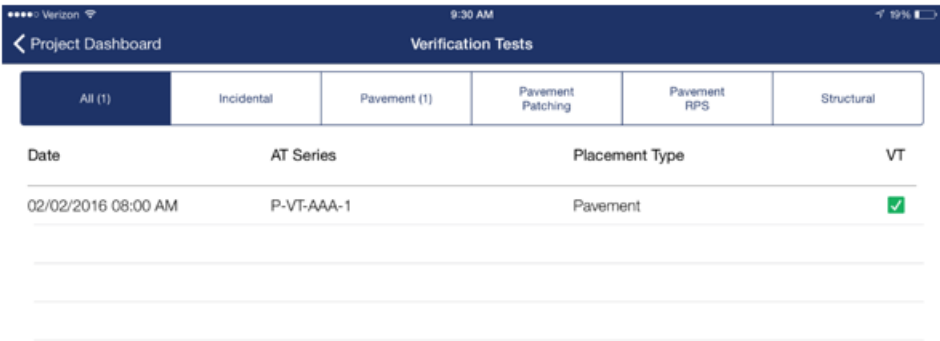


Verification Test Summary

The Project Dashboard screen provides a way to view the verification test administered for the selected project. To view the data, tap on the Verification Test Summary displays area.



The verification test summary provides a way to see all verification test taken based on the placement types. Tap on the specific tab to sort by type. The All tab will list all verification test taken.

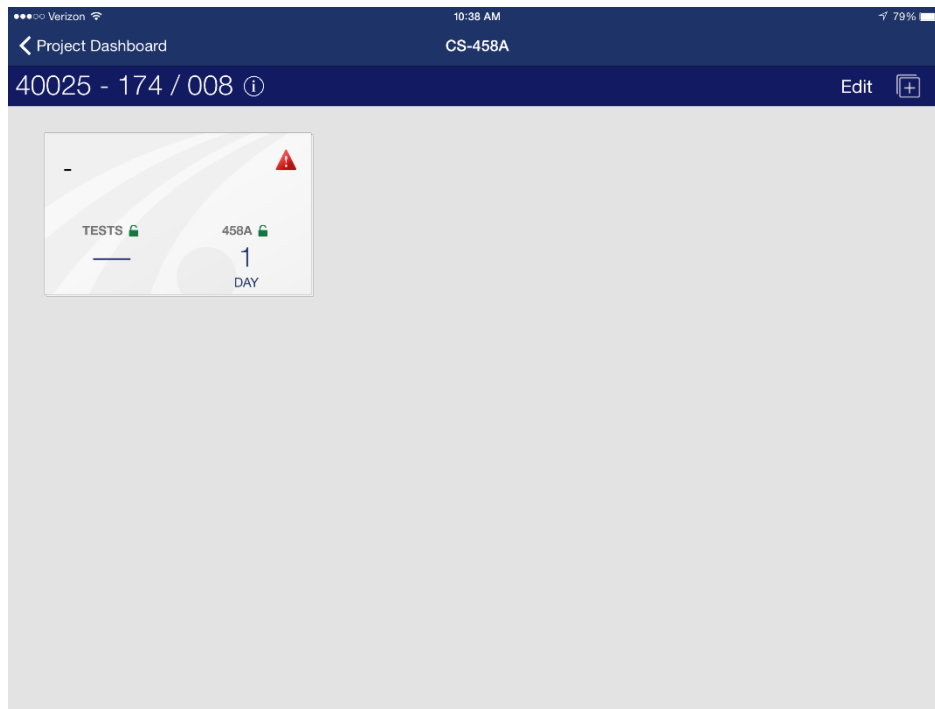


Create New CS-458A Report of Compressive Strength

Tap the Report of Compressive Strength from the Project Dashboard to present the CS-458A screen.

Add New Report of Compressive Strength

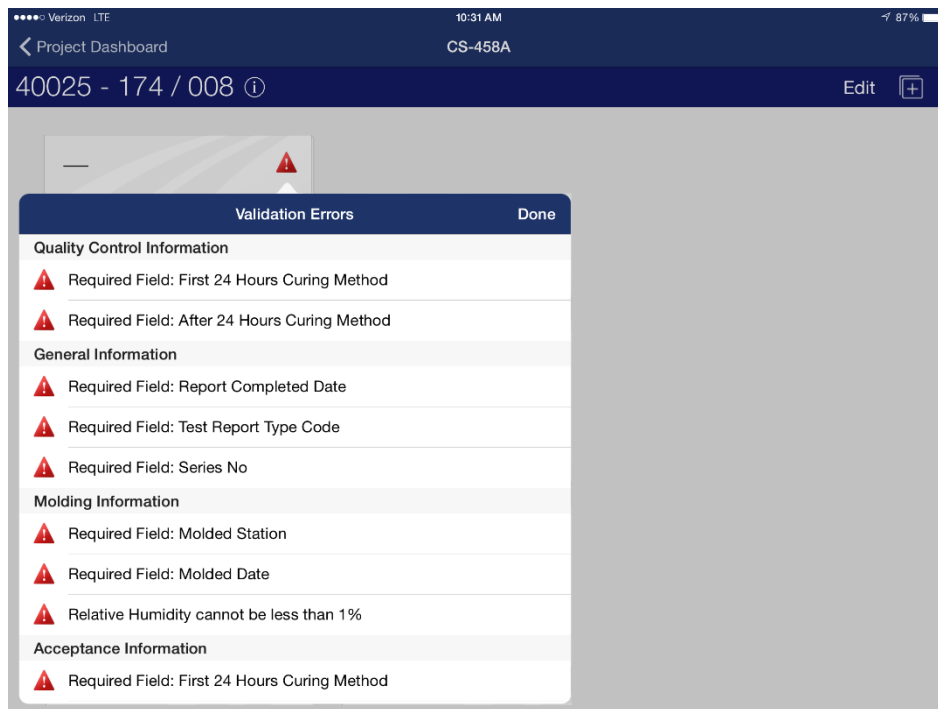
To add a New Report of Compressive Strength, tap on the  icon.



Review Report of Compressive Strength

Existing Reports of Compressive Strengths will display in a summary card format on the CS-458A screen. The card will display the sync icon or the validation icon. The Test lock icon will remain open until the sync is complete for the CS-458A.

Tap the validation icon to view a complete list of validation errors. Each validation directs you to the location of the error while tapping the line error line item. Tap the "Done" button to close the Validation Errors screen.



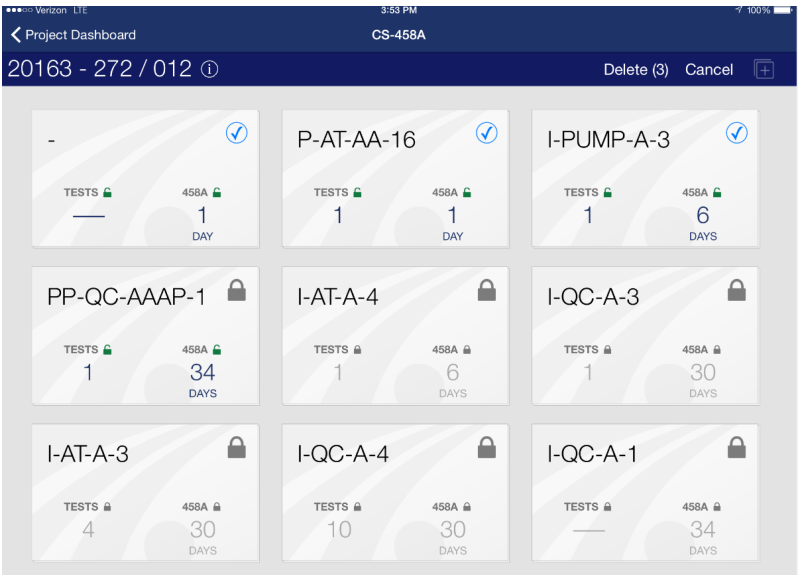
Break Notifications

Break notifications display on the CS-458A screen. The project screen also indicates the number of breaks that are due.



Delete Report of Compressive Strength

Unlocked sync'd Report of Compressive Strengths can be deleted. To delete a Report of Compressive Strength, tap the "Edit" button. Tap on the card to present the checkmark. Tap the "Delete" button.

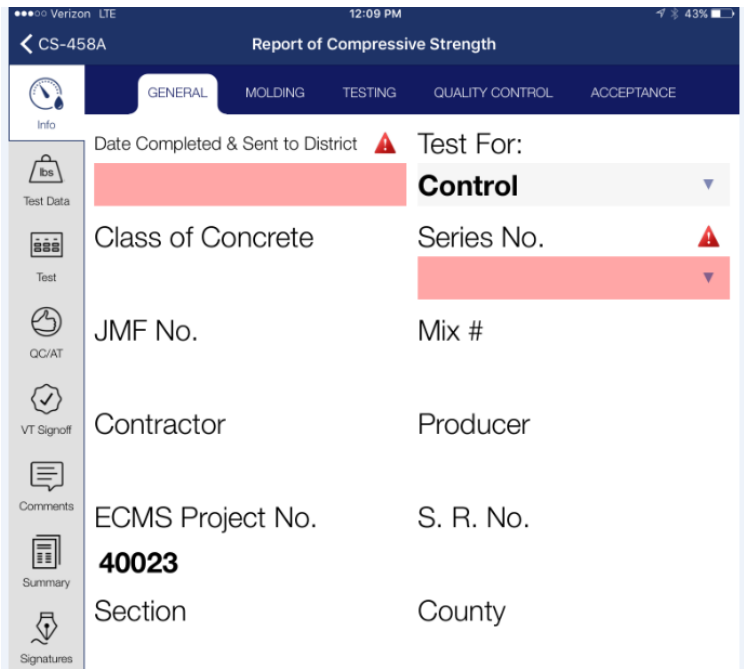


Report of Compressive Strength – Info

The Info tab captures the general information of the Compressive Strength report. General, Molding, Testing, Quality Control and Acceptance are separate tabs to capture the necessary data. The data collected in the CS-472 will prepopulate the common fields in the CS-458A. Tap the tab to collect the remaining data for each section.

General

Displayed in red are the required fields. Validation and warning icons display with messages to guide you to seek the correct data.



The Series No field presents a dropdown of the Cylinder Series noted in the Daily Placement Records. Select the Series No to be tested.

Item ID	Date
PP-PUMP-HES-6	05/03/2016
PP-AT-HES-4	05/03/2016
PP-IA-AA-1	04/27/2016
PP-PUMP-AA-1	04/27/2016
PP-QC-A-13	03/24/2016
PP-PUMP-A-7	03/24/2016
PP-AT-A-4	03/24/2016
PP-QC-A-4	03/15/2016
PP-QC-A-5	03/15/2016
PP-PUMP-A-4	03/15/2016
PP-PUMP-A-2	03/14/2016

Test For: **Control**

Series No. **PP-PUMP-HES-6**

Mix # **8185**

Producer **O**

S. R. No.

Molding, Testing, Quality Control and Acceptance

Displayed in red are the required fields. Validation and warning icons display with messages to guide you to seek the correct data.

Molding

Station Molded [Red Box] Date Molded [Red Box]

Concrete Placed In

Weather Relative Humidity [Red Box]

Air Temperature Low Air Temperature High

Testing

Verizon LTE12:09 PM43%

CS-458A

Report of Compressive Strength

Info

GENERAL

MOLDING

TESTING

QUALITY CONTROL

ACCEPTANCE

Station Molded

Date Molded

Concrete Placed In

Weather

Relative Humidity

Air Temperature Low

Air Temperature High

Test Data

Test

QC/AT

VT Signoff

Comments

Summary

Signatures

Quality Control

Verizon LTE12:09 PM43%

CS-458A

Report of Compressive Strength

Info

GENERAL

MOLDING

TESTING

QUALITY CONTROL

ACCEPTANCE

Testing Apparatus

Make

Serial No.

Date Calibrated

Acceptance Test

Air Content

Concrete Temperature

Slump

Verification Test

Air Content

Concrete Temperature

Slump

Test Data

Test

QC/AT

VT Signoff

Comments

Summary

Signatures

Acceptance

Info

Test Data

Test

QC/AT

VT Signoff

Comments

Summary

Signatures

CS-458A

Report of Compressive Strength

GENERALMOLDINGTESTINGQUALITY CONTROLACCEPTANCE

View Curing Log

First 24 HRS

Temperature LowTemperature High

Method

After 24 HRS

Temperature LowTemperature High

Method

Report of Compressive Strength – Test Data

The Test Data tab collects the sample age data. Displayed in red are the required fields. Validation and warning icons display with messages to guide you to seek the correct data.

Info

Test Data

Test Summary

QC/AT Signoff

VT Signoff

Comments

Summary

Signatures

CS-458A

Report of Compressive Strength

Sample Age0 days

Test Type

Break TypeB (Cylinder)

Length12.00 in.

Diameter #16.00 in.

Diameter #26.00 in.

Diameter Avg.6.00 in.

Area28.27 sq. in.

Maximum Applied Load

Compressive Strength

Test Performed Date03/29/2016

Tested By

SectionsDone

New Test

New Test

FirstPrevNextNew

New Test (1 of 1)

Adding multiple Test Samples

To add additional Test Samples to the CS-458A, tap on the “New” button. The other option to add a new test, tap the New Test link. The sections screen displayed includes the New Test line item. Tap on the line item to add a new test sample.

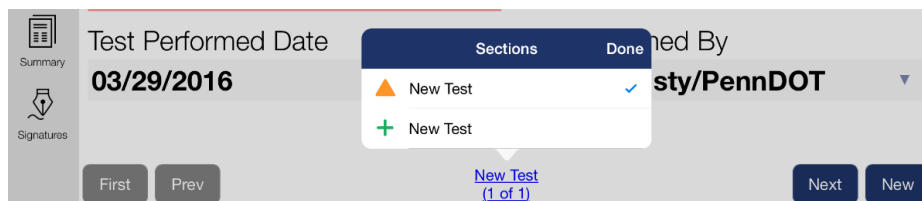
Navigating multiple Test Samples

There are two ways to navigate when more than one test sample captured. Tap on the “First”, “Prev” and “Next” buttons located on the screen. Table 5 provides a description of each button.

Button	Button Description
First	Navigates to the First Test Sample entered.
Prev	Navigates to the Prev Test Sample entered.
Next	Navigates to the Next Test Sample entered.

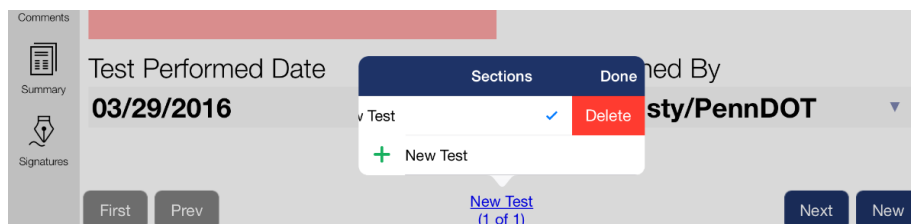
Table 5

Another option is to tap on the link to present the Sections screen. Sample age lists the display of the test samples. Tap on the line to view the captured data.



Delete Test Sample

Test Sample data can be deleted if the data has not been sync'd to the server. Tap the trash can located on the top right corner of the PTM screen. The other option is to tap on the Sample Age link to display the Sample Ages test in the Sections screen. The swipe left feature enables the display of the “Delete” button. Tap the “Delete” button, to delete the data.



Report of Compressive Strength – Test Summary

The Test Summary tab is a summary of all the sample tests collected. The Test Summary screen allows the view of test samples with averages for the Maximum Applied Load and Compressive Strength.

Verizon 3G

9:33 AM

58%

CS-458A

Report of Compressive Strength

Info

Test Data

Test Summary

QC/AT Signoff

VT Signoff

Comments

Summary

Signatures

Maximum Applied Load

Compressive Strength

Test Spec	3-day QC	7-day QC	28-day AT	28-day QC	28-day VT
1	144000	144000	155000	150000	160000
2	130000	146000	153000	155000	165000
Avg.	137000	145000	154000	152500	162500

Prev

Next

Navigating multiple Test Summaries

To navigate to multiple test summaries. Tap on the “Prev”, “Next” buttons located on the screen. Table 6 provides a description of each button.

Button	Button Description
Prev	Navigates to the Prev Test Summary entered.
Next	Navigates to the Next Test Summary entered.

Table 6

Report of Compressive Strength - QC/AT Signoff/VT Signoff

Signoff of the collection of data is required. Tap on the field to present the sign off screen.

QC/AT Signoff

Verizon

10:35 AM

79%

< CS-458A

Report of Compressive Strength

Info

Test Data

Test Summary

QC/AT Signoff

VT Signoff

Comments

Summary

Signatures

Molded By

Cert No

7-Day Tested By

28-Day Tested By

3-Day Tested By

Date of Loading/Form Removal

Witnessed By

Method of Capping

Witnessed By

Witnessed By

Date Field Curing Discontinued

3541234-3

02-12-16

Sulfur

02-12-16

VT Signoff

Verizon

10:37 AM

79%

< CS-458A

Report of Compressive Strength

Info

Test Data

Test Summary

QC/AT Signoff

VT Signoff

Comments

Summary

Signatures

Molded By

Cert No

Tested By

Reported By

Witnessed By

Method of Capping

Witnessed By


23415

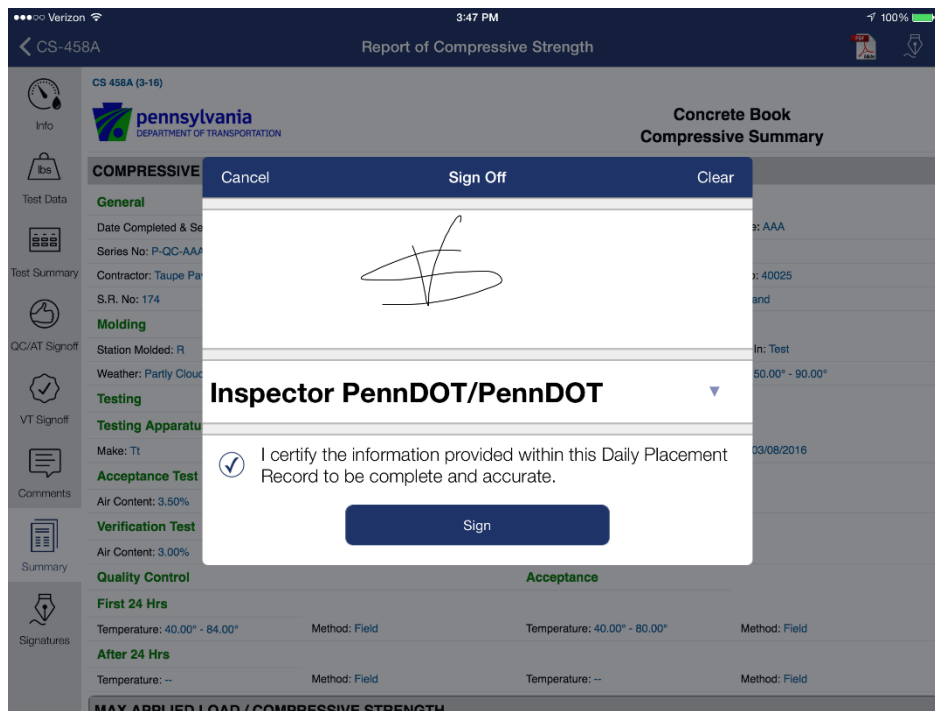
Sulfur

The Comments section of the Report of Compressive Strength captures general comments. Created By and Created fields captures the date and time entry. To add a comment, tap the  icon located on the top right hand corner of the screen.

Page 48 of 50

Review Summary and Final CS-458A Signoff

A summary of the data collected is viewable in the Summary tab. Signoff of the collection of data is required. Tap on the  icon to present the sign off screen. Certifying the information provided within the Daily Placement is necessary to enable the “Sign” button. Tap the “Sign” button to sync the data.



CS-458A (3-16)

Report of Compressive Strength

Concrete Book
Compressive Summary

COMPRESSIVE

Cancel Sign Off Clear

General

Date Completed & Sent to District: 02/01/2016

Series No: P-QC-AAA-1

Contractor: Taupé Pavement Marking

S.R. No: 174

Molding

Station Molded: A

Weather: Clear

Testing

Testing Apparatus

Make: Pilot

Serial No: A320xx

Date Calibrated: 09/12/2015

Acceptance Test

Air Content: 4.00%

Concrete Temperature: 50.00°

Slump: 2.75 in

Verification Test

Air Content: --

Concrete Temperature: --

Slump: --

Quality Control

Acceptance

First 24 Hrs

Temperature: 51.00° - 62.00° Method: Field Temperature: 50.00° - 60.00° Method: Lime Bath

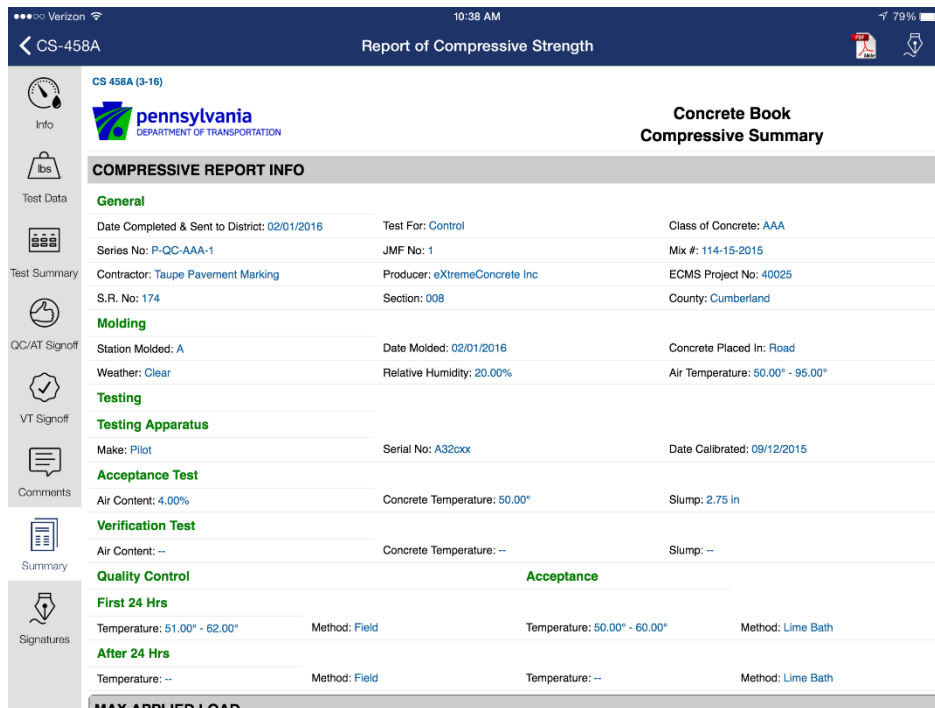
After 24 Hrs

Temperature: -- Method: Field Temperature: -- Method: Lime Bath

MAX APPLIED LOAD / COMPRESSIVE STRENGTH

Compressive Strength Summary – PDF

A PDF version of the Compressive Strength Summary record is available to view, email, print, save to Adobe Acrobat, etc.



CS-458A (3-16)

Report of Compressive Strength

Concrete Book
Compressive Summary

COMPRESSIVE REPORT INFO

General

Date Completed & Sent to District: 02/01/2016

Series No: P-QC-AAA-1

Contractor: Taupé Pavement Marking

S.R. No: 174

Molding

Station Molded: A

Weather: Clear

Testing

Testing Apparatus

Make: Pilot

Serial No: A320xx

Date Calibrated: 09/12/2015

Acceptance Test

Air Content: 4.00%

Concrete Temperature: 50.00°

Slump: 2.75 in

Verification Test

Air Content: --

Concrete Temperature: --

Slump: --

Quality Control

Acceptance

First 24 Hrs

Temperature: 51.00° - 62.00° Method: Field Temperature: 50.00° - 60.00° Method: Lime Bath

After 24 Hrs

Temperature: -- Method: Field Temperature: -- Method: Lime Bath

MAX APPLIED LOAD

Report of Compressive Strength – Signatures

Captured signatures display on the signatures screen for viewing.

Report of Compressive Strength		
Info		Dottie Inspector/PennDOT 02/12/2016
Test Data		Inspector PennDOT/PennDOT 02/12/2016
Test Summary		Inspector PennDOT/PennDOT 02/12/2016
QC/AT Signoff		Fhwa Dev Approver 1/PennDOT BP-000459 02/12/2016
VT Signoff		Priyanka Peddi/PennDOT 02/12/2016
Comments		Dottie Ace Acn/PennDOT 02/12/2016
Summary		Inspector PennDOT/PennDOT 02/12/2016
Signatures		Fhwa Dev Approver 1/PennDOT BP-000459 02/12/2016
		Dottie Inspector/PennDOT 02/12/2016
		Inspector PennDOT/PennDOT 02/12/2016